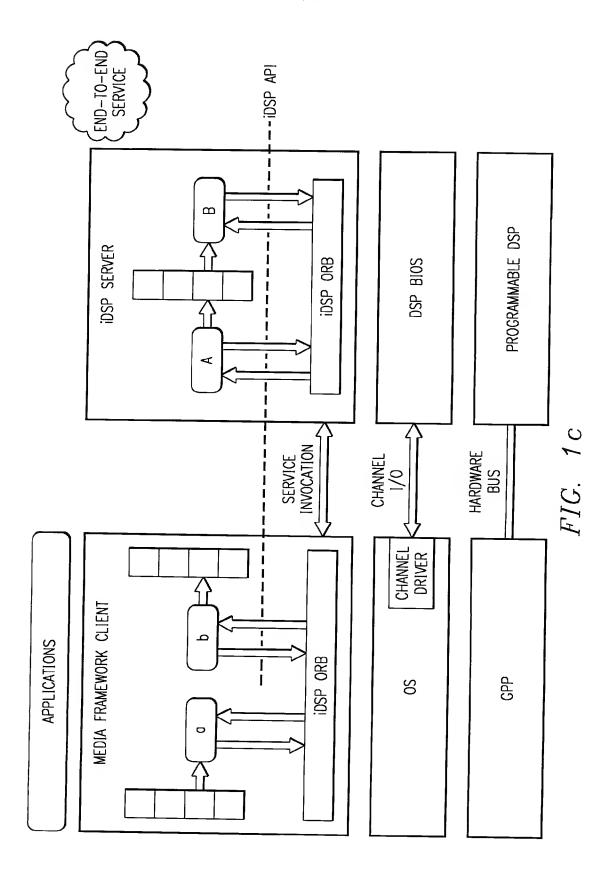
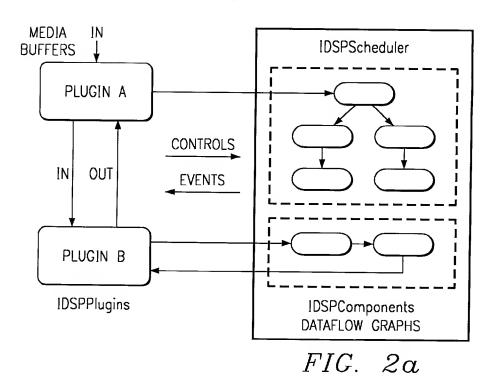
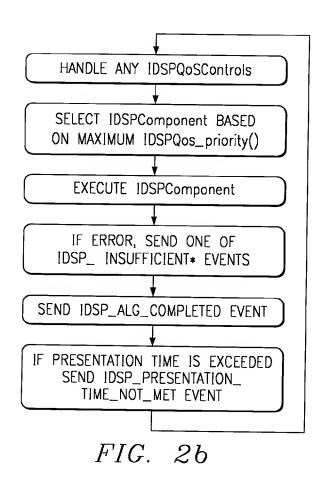
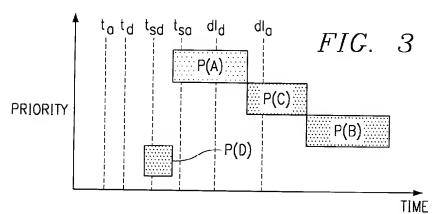


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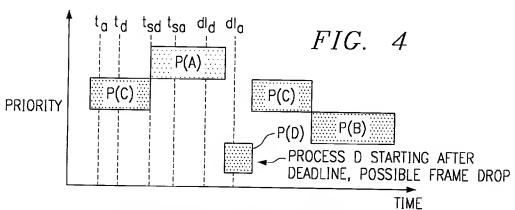






 $t_{\text{SO}} = \text{LAST POSSIBLE TIME FOR PROCESS A}$ TO START AND STILL MAKES ITS DEADLINE

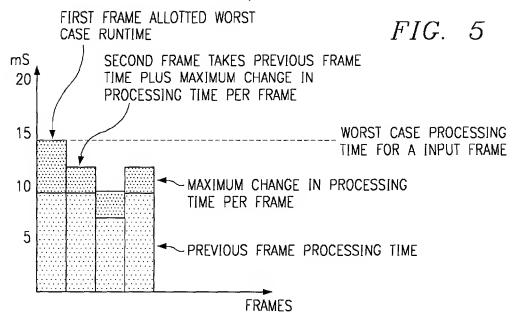
 $t_{sd}$  = LAST POSSIBLE TIME FOR PROCESS D TO START AND STILL MAKE ITS DEADLINE

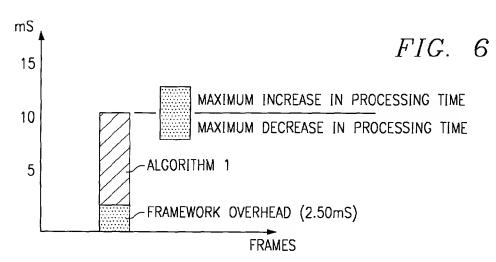


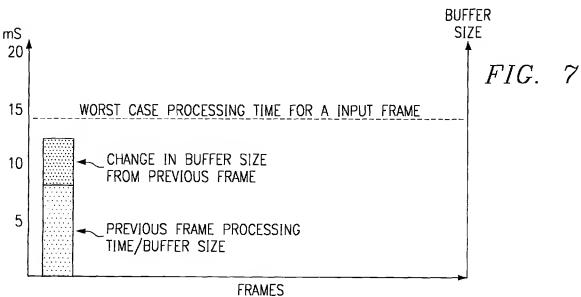
 $t_{SO} = LAST$  POSSIBLE TIME FOR PROCESS A TO START AND STILL MAKES ITS DEADLINE

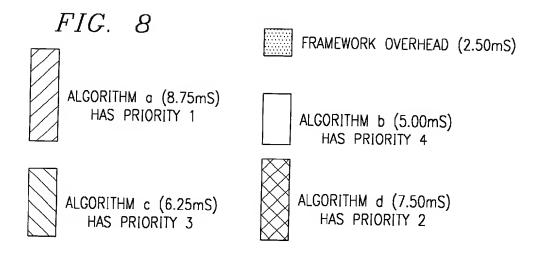
 $t_{sd} = \text{LAST POSSIBLE TIME FOR PROCESS D}$ TO START AND STILL MAKE ITS DEADLINE

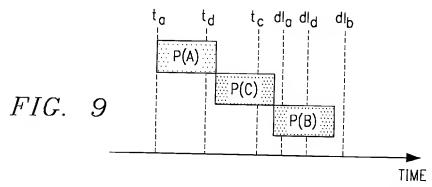








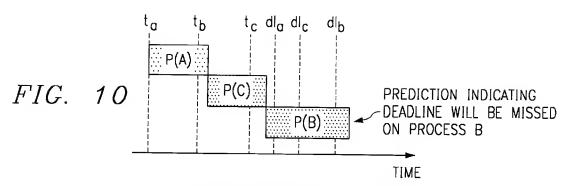




t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dl; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

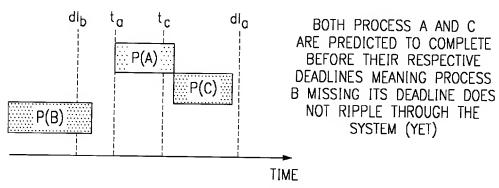
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME



t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

di; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

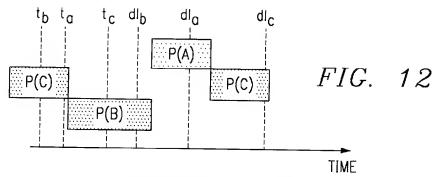
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME



t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

di; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

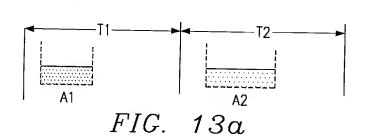
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME FIG. 11

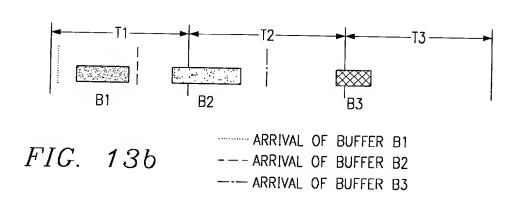


t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

di; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME





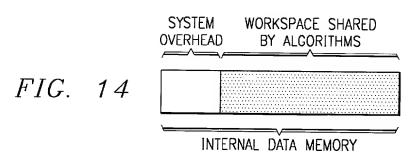


FIG. 15



ALGORITHM WORKSPACE COMPONENTS

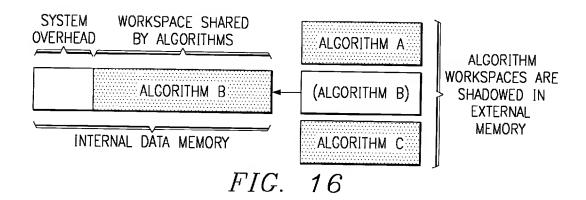


FIG. 17

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ALGORITHM WORKSPACE COMPONENTS TO TRANSFER ON CONTEXT SWITCH

Pid.

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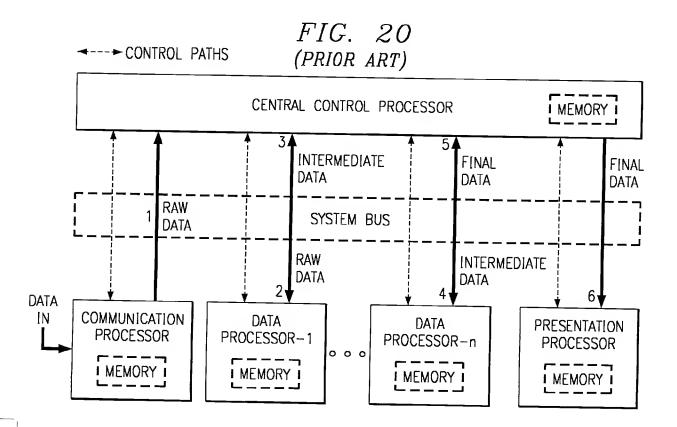
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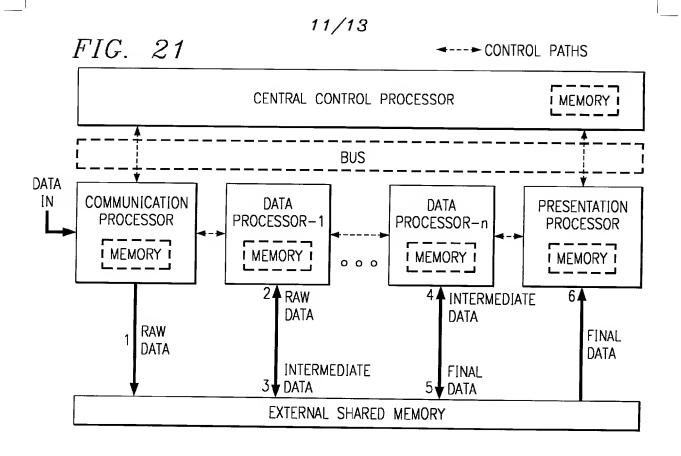
ALGORITHM WORKSPACE COMPONENTS TO TRANSFER IN PRIOR TO ALGORITHM EXECUTION IF ALGORITHM REQUIRES CONSTANT TABLES (CONTEXT SWITCH IN ONLY)

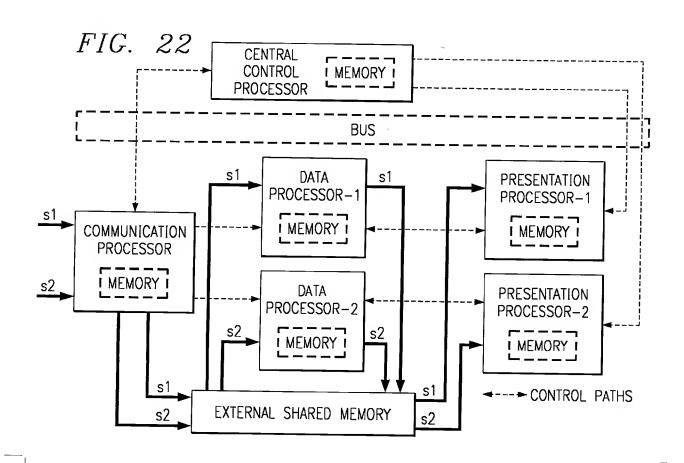
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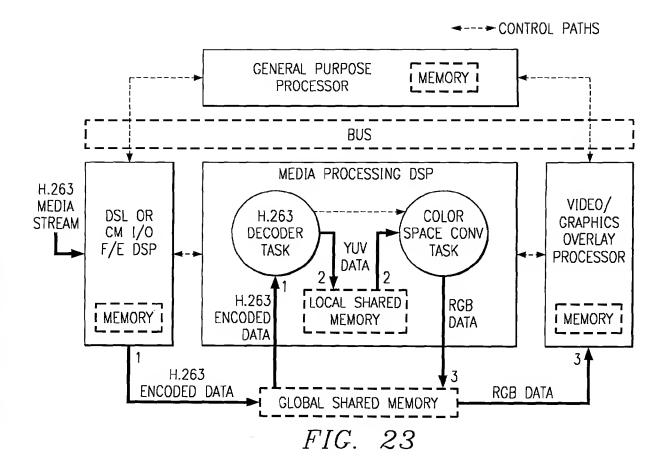
READ ONLY PERSISTENT MEMORY DOES NOT NEED TO BE TRANSFERRED OUT ON CONTEXT SWITCH. THEREFORE ALGORITHM PAGE CHANGE-OUT IS MORE EFFICIENT.

FIG. 19









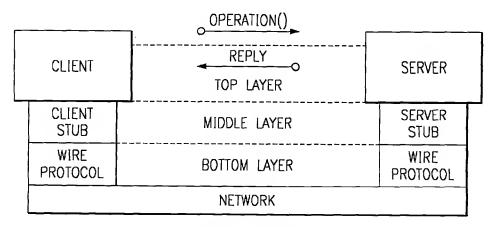


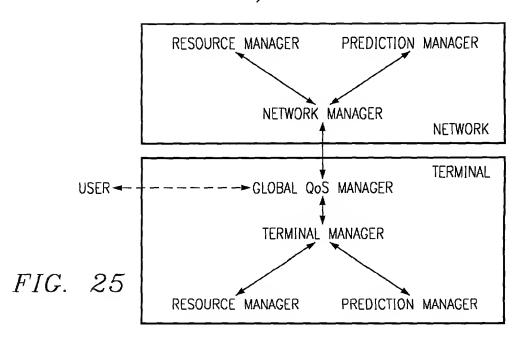
FIG. 24

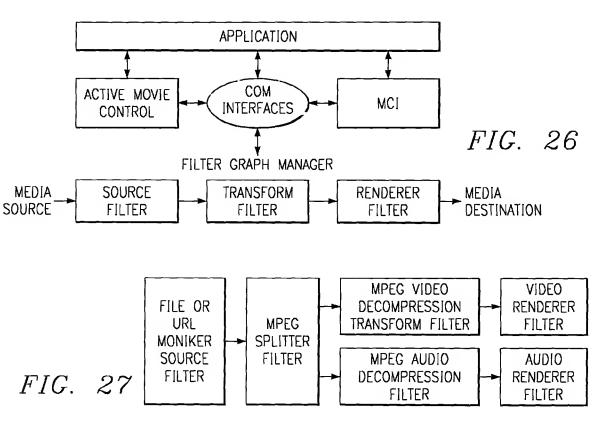
SOURCE

**FILTER** 

OUTPUT PIN

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TRANSFORM

FILTER

OUTPUT PIN

INPUT PIN

RENDERER

FILTER

INPUT PIN

FIG. 28